

# Forestry Statistics 2023

## Chapter 3: Trade

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## Introduction

This chapter contains information about UK imports and exports of wood products, and about the level of apparent consumption estimated from data for UK production, imports and exports.

Most information on imports and exports come from [the Overseas Trade Statistics compiled by HM Revenue & Customs](#). Estimates are provided at a UK level only. International comparisons of apparent consumption are provided later in the International Forestry chapter. Further information on the data sources and methodology used to compile the figures is provided in the Sources chapter.

Figures for 2022 were previously published in [UK Wood Production and Trade: provisional figures](#), released on 18 May 2023. Some figures for 2022 and earlier years have been revised from those previously published. For further details on revisions, see the Trade section of the Sources chapter.

A copy of all trade tables can be accessed in spreadsheet format from the [Data Downloads page](#).

## Key findings

The main findings are:

### UK imports:

- 6.5 million cubic metres of sawnwood in 2022, a 20% decrease from 2021;
- 3.2 million cubic metres of wood-based panels in 2022, a 15% increase from 2021;
- 7.5 million tonnes of wood pellets in 2022, an 18% decrease from 2021;
- 5.0 million tonnes of paper in 2022, a 19% increase from 2021.
- The total value of wood product imports in 2022 was £10.7 billion, representing a 25% increase from 2021; of which £5.2 billion was pulp and paper.
- Sawn softwood, sawn hardwood, particleboard, fibreboard, and paper and paperboard were mainly imported from EU countries in 2022.
- Wood pulp imports originated from a range of both EU and non-EU countries in 2022.
- The vast majority of UK imports of plywood and wood pellets came from countries outside the EU in 2022.
- Apparent consumption of wood in the UK was 48.3 million m<sup>3</sup> wood raw material equivalent underbark in 2022, representing a 9% decrease from the previous year.

### UK exports:

- The total value of wood product exports in 2022 was £2.2 billion, a 13% increase from 2021; of which £1.9 billion was pulp and paper.

### 3.1 Apparent consumption of wood in the UK

Apparent consumption is the amount of timber used as wood and wood products by people and industries in the United Kingdom. It is calculated as total domestic production plus imports, minus exports. Apparent consumption differs from actual consumption by the extent of changes in the level of stocks. It is not practical to collect information on actual consumption.

As Table 3.1 covers a broad range of products (including secondary processed wood products), volumes are expressed in wood raw material equivalent (WRME) underbark. WRME volumes represent the amount of wood that would have been required to make the product.

UK production of roundwood totalled 9.8 million m<sup>3</sup> WRME underbark in 2022 (Table 3.1). A further 43.1 million m<sup>3</sup> WRME underbark of wood and wood products were imported to the UK and 4.5 million m<sup>3</sup> WRME underbark were exported, giving an apparent consumption of 48.3 million m<sup>3</sup> WRME underbark. This represented a 9% decrease in apparent consumption from the previous year. These figures exclude recycled wood and recovered paper (see Table 3.3 for statistics on recovered paper).

Imports accounted for 81% of all wood (production + imports) in the UK in 2022.

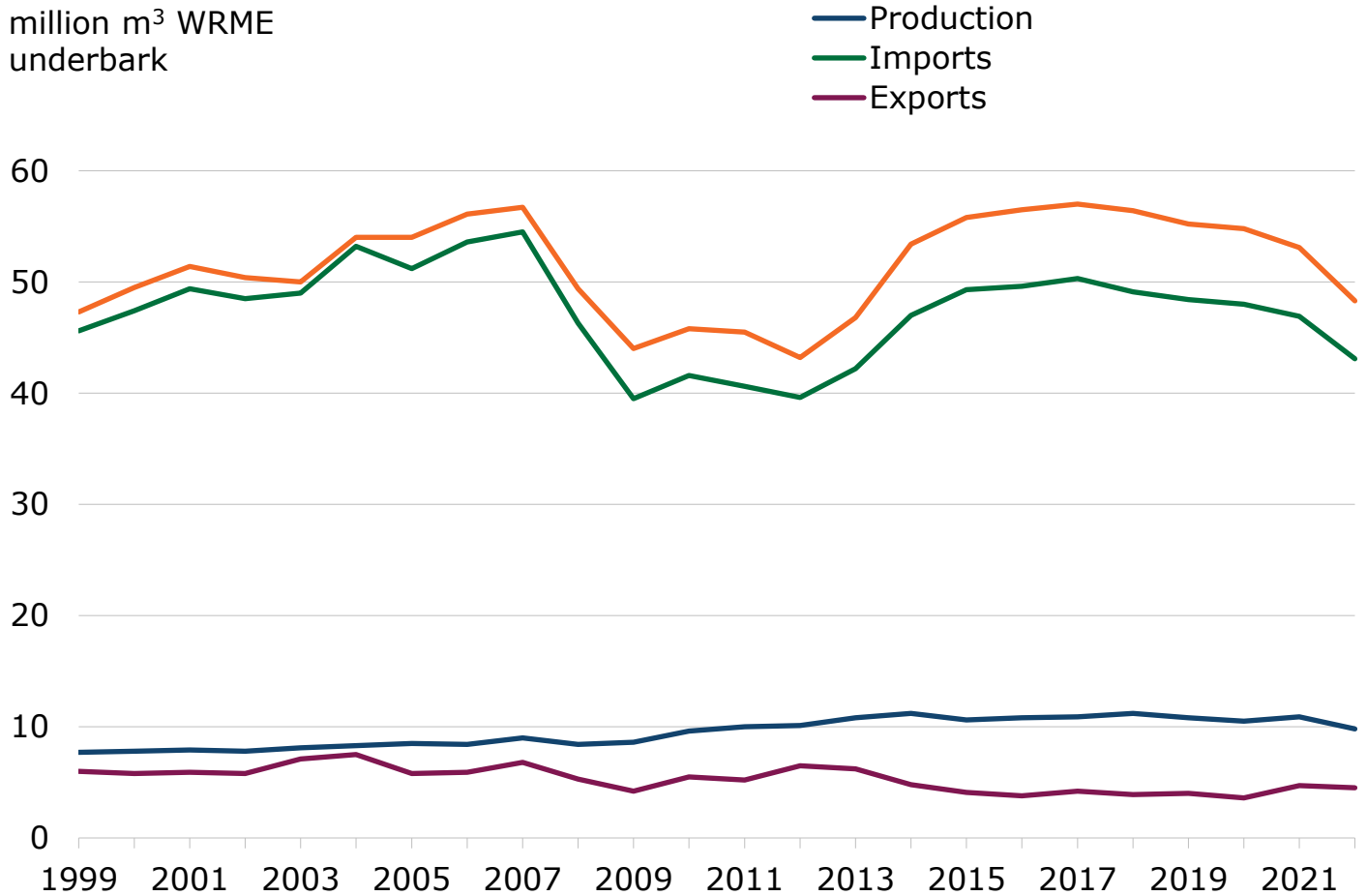
Table 3.1 Apparent consumption of wood<sup>1</sup>, UK, 2013 to 2022million m<sup>3</sup> WRME underbark

<b>Year</b>	<b>UK production<sup>2</sup></b>	<b>Imports</b>	<b>Exports</b>	<b>Apparent Consumption</b>
2013	10.8	42.2	6.2	46.8
2014	11.2	47.0	4.8	53.4
2015	10.6	49.3	4.1	55.8
2016	10.8	49.6	3.8	56.5
2017	10.9	50.3	4.2	57.0
2018	11.2	49.1	3.9	56.4
2019	10.8	48.4	4.0	55.2
2020	10.5	48.0	3.6	54.8
2021	10.9	46.9	4.7	53.1
2022	9.8	43.1	4.5	48.3

Source: Industry surveys, industry associations, UK overseas trade statistics (HM Revenue & Customs) and conversion factors to Wood Raw Material Equivalent (WRME).

Notes:

1. Excludes recycled wood and recovered paper.
2. UK production of roundwood is estimated from deliveries to wood processing industries and others, as in Tables 2.5 and 2.6.

Figure 3.1 Apparent consumption of wood<sup>1</sup>, UK, 1999 to 2022

Source: Industry surveys, industry associations, UK overseas trade statistics (HM Revenue & Customs) and conversion factors to Wood Raw Material Equivalent (WRME).

Notes:

1. Excludes recycled wood and recovered paper.
2. UK production of roundwood is estimated from deliveries to wood processing industries and others, as in Tables 2.5 and 2.6.



## 3.2 Apparent consumption of wood products in the UK

Table 3.2 provides volumes of UK production, trade and apparent consumption in selected wood products. It differs from Table 3.1 in terms of both coverage (Table 3.1 covers a wider range of wood and wood products, including secondary processed products) and in terms of units (wood raw material equivalents in Table 3.1, volumes of product in Table 3.2).

UK production accounted for 33% of the UK sawnwood market, 55% of the UK wood-based panel market and 59% of the UK paper market in 2022 (Table 3.2).

Table 3.2 Apparent consumption of wood products<sup>1,2</sup>, UK, 2022

	thousand m <sup>3</sup>			
Product	UK production	Imports	Exports	Apparent consumption
Coniferous sawnwood	3,108	5,719	165	8,663
Non-coniferous sawnwood	37	787	17	807
<b>Total sawnwood</b>	<b>3,145</b>	<b>6,506</b>	<b>182</b>	<b>9,470</b>
Veneer sheets	0	7	1	6
Plywood	0	1,320	66	1,254
Particleboard	2,610	1,014	245	3,379
Fibreboard	856	895	60	1,692
<b>Total wood-based panels</b>	<b>3,466</b>	<b>3,235</b>	<b>371</b>	<b>6,331</b>
Sanitary & household papers	737	543	115	1,165
Packaging materials	1,842	2,388	456	3,774
Other paper & paperboard	883	0	0	883
<b>Total paper &amp; paperboard</b>	<b>3,462</b>	<b>2,931</b>	<b>571</b>	<b>5,822</b>

Source: Industry surveys, industry associations, UK overseas trade statistics (HM Revenue & Customs).

Notes:

1. Excludes other wood products, e.g., fuelwood and round fencing.

2. Excludes roundwood and intermediate products (e.g., sawmill products, pulp and recovered paper) to avoid double-counting.
3. Includes sleepers.

### 3.3 Flow of recovered paper

UK production of recovered paper (the amount recovered from businesses and households in the UK) totalled 6.7 million tonnes in 2022 (Table 3.3), a decrease of 6% from 2021. Imports increased by 29% and exports decreased by 5% between 2021 and 2022, resulting in a 5% decrease in apparent consumption over this period.

Table 3.3 Flow of recovered paper, UK, 2013 to 2022

thousand tonnes				
Year	UK production	Imports	Exports	Apparent consumption <sup>1</sup>
2013	7,901	184	4,248	3,837
2014	8,014	136	4,436	3,714
2015	7,912	305	4,881	3,336
2016	7,825	125	4,932	3,018
2017	7,772	107	4,733	3,147
2018	7,539	120	4,530	3,129
2019	7,348	83	4,327	3,104
2020	6,647	130	3,842	2,935
2021	7,103	130	4,299	2,934
2022	6,689	168	4,082	2,775

Source: Confederation of Paper Industries, UK overseas trade statistics (HM Revenue & Customs).

Notes:

1. Apparent consumption of recovered paper refers to use of recycled paper pulp in the UK.

### 3.4 UK import quantities by product

Wood imports to the UK in 2022 included 6.5 million cubic metres of sawnwood (a 20% decrease from the previous year), 3.2 million cubic metres of wood-based panels (15% decrease), 7.5 million tonnes of wood pellets (18% decrease) and 6 million tonnes of pulp and paper (18% increase) (Table 3.4a).

Table 3.4a Import quantities, UK, 2013 to 2022<sup>1</sup>

Year	thousand m <sup>3</sup>				
	Sawnwood <sup>2</sup> (thousand m <sup>3</sup> )	Wood-based panels <sup>3</sup> (thousand m <sup>3</sup> )	Other wood <sup>4</sup> (thousand m <sup>3</sup> )	Wood pellets (thousand tonnes)	Pulp & paper <sup>5</sup> (thousand tonnes)
2013	5,488	2,964	1,267	3,432	7,213
2014	6,425	3,260	1,329	4,773	7,319
2015	6,323	3,215	1,378	6,573	7,560
2016	6,794	3,410	1,133	6,782	7,092
2017	7,663	3,800	1,379	6,885	6,798
2018	7,213	3,878	1,766	7,992	6,663
2019	7,040	3,650	2,112	8,878	6,130
2020	7,218	3,267	2,136	9,078	5,329
2021	8,159	3,794	1,602	9,128	5,114
2022	6,506	3,235	1,271	7,516	6,042

Source: UK overseas trade statistics (HM Revenue & Customs), industry associations

Notes:

1. There are reliability concerns for some of these figures, particularly for individual products (see Sources chapter).
2. Sawnwood includes sleepers from 2017.
3. Includes veneer sheets.
4. Includes roundwood, wood charcoal, chips, particles, residues and from 2017, includes recovered wood.
5. Further details of pulp and paper import quantities are provided in Table 3.4a.

Paper accounted for the majority of pulp and paper imports, with a total of 5.0 million tonnes imported in 2022 (Table 3.4b). This represented a 19% increase from the previous year.

Table 3.4b Import quantities, UK, 2013 to 2022<sup>1</sup>: Pulp and paper

thousand tonnes

Year	Paper	Pulp	Recovered paper	Total Pulp & Paper
2013	5,929	1,100	184	7,213
2014	5,949	1,234	136	7,319
2015	6,032	1,223	305	7,560
2016	5,876	1,092	125	7,092
2017	5,610	1,081	107	6,798
2018	5,477	1,066	120	6,663
2019	5,150	897	83	6,130
2020	4,555	644	130	5,329
2021	4,206	778	130	5,114
2022	5,015	859	168	6,042

Source: UK overseas trade statistics (HM Revenue & Customs), industry associations

1. There are reliability concerns for some of these figures, particularly for individual products (see Sources chapter).

### 3.5 UK export quantities by product

A total of 5.1 million tonnes of pulp and paper (including recovered paper) was exported from the UK in 2022 (Table 3.5a), representing a 4% decrease from 2021.

Table 3.5a Export quantities, UK, 2013 to 2022<sup>1</sup>

Year	thousand m <sup>3</sup>				
	Sawn wood <sup>2</sup> (thousand m <sup>3</sup> )	Wood-based panels <sup>3</sup> (thousand m <sup>3</sup> )	Other wood <sup>4</sup> (thousand m <sup>3</sup> )	Wood pellets (thousand tonnes)	Pulp & paper <sup>5</sup> (thousand tonnes)
2013	167	432	1,267	106	5,390
2014	175	404	1,083	98	5,467
2015	187	286	1,018	88	5,712
2016	193	314	821	21	5,700
2017	218	374	638	126	5,528
2018	238	295	595	63	5,317
2019	215	384	604	33	5,160
2020	231	389	301	4	4,617
2021	277	321	302	2	5,352
2022	182	371	256	23	5,144

Source: UK overseas trade statistics (HM Revenue & Customs), industry associations

Notes:

1. There are reliability concerns for some of these figures, particularly for individual products (see Sources chapter).
2. Sawnwood includes sleepers from 2017.
3. Includes veneer sheets.
4. Includes roundwood, wood charcoal, chips, particles, residues and, from 2017, includes recovered wood.
5. Further details of pulp and paper export quantities are provided in Table 3.5a.

Recovered paper accounted for the majority of pulp and paper exports, with 4.1 million tonnes exported in 2022 (Table 3.5b).

Table 3.5b Export quantities: pulp and paper, UK, 2013 to 2022<sup>1</sup>

thousand tonnes

<b>Year</b>	<b>Paper</b>	<b>Pulp</b>	<b>Recovered paper</b>	<b>Total Pulp &amp; Paper</b>
2013	1,119	23	4,248	5,390
2014	1,010	21	4,436	5,467
2015	807	24	4,881	5,712
2016	760	7	4,932	5,700
2017	788	7	4,733	5,528
2018	772	15	4,530	5,317
2019	825	9	4,327	5,160
2020	749	26	3,842	4,617
2021	1,048	5	4,299	5,352
2022	1,055	7	4,082	5,144

Source: UK overseas trade statistics (HM Revenue & Customs), industry associations

Notes:

1. There are reliability concerns for some of these figures, particularly for individual products (see Sources chapter).

### 3.6 UK import values by product

Wood product imports in 2022 were valued at a total of £10.7 billion, a 25% increase from 2021 (Table 3.6a). Pulp and paper (including recovered paper) accounted for 49% of the total import value in 2022. Sawnwood imports were valued at £2.3 billion in 2022, wood-based panels at £1.5 billion and wood pellets at £1.3 billion.

Table 3.6a Import values, UK, 2013 to 2022<sup>1</sup>

£ million

Year	Sawn wood <sup>2</sup>	Wood-based panels <sup>3</sup>	Other wood <sup>4</sup>	Wood pellets	Pulp & Paper <sup>5</sup>	Total
2013	1,180	882	88	412	4,165	6,727
2014	1,420	936	80	547	4,196	7,180
2015	1,311	957	88	780	4,375	7,510
2016	1,423	1,010	85	915	4,003	7,436
2017	1,636	962	90	961	3,998	7,647
2018	1,743	1,201	75	1,117	4,075	8,210
2019	1,598	1,134	97	1,309	4,076	8,214
2020	1,587	970	198	1,339	3,388	7,482
2021	2,668	1,313	173	1,295	3,088	8,538
2022	2,346	1,549	279	1,323	5,209	10,705

Source: UK overseas trade statistics (HM Revenue & Customs), industry associations

Notes:

1. There are reliability concerns for some of these figures, particularly for individual products (see Sources chapter).
2. Sawnwood includes sleepers from 2017.
3. Includes veneer sheets.
4. Includes roundwood, wood charcoal, chips, particles, residues and from 2017, includes recovered wood.
5. Further details of pulp and paper import values are provided in Table 3.6a.

Paper imports were valued at £4.6 billion in 2022, accounting for 88% of all pulp and paper imports (Table 3.6b).

Table 3.6b Import values, UK, 2013 to 2022<sup>1</sup>

£ million

Year	Paper	Pulp	Recovered paper	Total Pulp & Paper
2013	3,644	500	21	4,165
2014	3,667	509	19	4,196
2015	3,711	642	23	4,375
2016	3,434	557	13	4,003
2017	3,418	566	14	3,998
2018	3,415	639	21	4,075
2019	3,538	520	17	4,076
2020	2,903	451	35	3,388
2021	2,666	396	26	3,088
2022	4,574	596	39	5,209

Source: UK overseas trade statistics (HM Revenue & Customs), industry associations

Notes:

1. There are reliability concerns for some of these figures, particularly for individual products (see Sources chapter).



### 3.7 UK export values by product

Wood product exports from the UK were valued at a total of £2.2 billion in 2022, a 13% increase from the 2021 total (Table 3.7a). Total exports of wood products in 2022 comprised 86% pulp and paper, 8% wood-based panels, and 6% other wood.

Table 3.7a Export values, UK, 2013 to 2022<sup>1</sup>

£ million

Year	Sawnwood <sup>2</sup>	Wood-based panels <sup>3</sup>	Other wood <sup>4</sup>	Wood pellets	Pulp & Paper <sup>5</sup>	Total
2013	37	109	47	5	1,519	1,717
2014	43	107	39	2	1,480	1,672
2015	44	75	35	1	1,441	1,597
2016	50	91	26	0	1,307	1,473
2017	55	109	41	6	1,651	1,861
2018	64	103	22	5	1,597	1,791
2019	58	123	22	2	1,491	1,695
2020	63	114	36	1	1,336	1,549
2021	96	158	44	0	1,674	1,972
2022	85	171	44	12	1,923	2,236

Source: UK overseas trade statistics (HM Revenue & Customs), industry associations

Notes:

1. There are reliability concerns for some of these figures, particularly for individual products (see Sources chapter).
2. Sawnwood includes sleepers from 2017.
3. Includes veneer sheets.
4. Includes roundwood, wood charcoal, chips, particles, residues and from 2017, includes recovered wood.
5. Further details of pulp and paper export values are provided in Table 3.7a.

Paper exports were valued at £1.2 billion in 2022, accounting for 61% of all pulp and paper exports (Table 3.7b).

Table 3.7b Export values: pulp and paper, UK, 2012 to 2022<sup>1</sup>

£ million

<b>Year</b>	<b>Paper</b>	<b>Pulp</b>	<b>Recovered paper</b>	<b>Total Pulp &amp; Paper</b>
2012	1,048	10	531	1,589
2013	1,017	8	494	1,519
2014	997	7	476	1,480
2015	901	7	534	1,441
2016	838	4	465	1,307
2017	997	5	649	1,651
2018	1,022	5	570	1,597
2019	1,049	4	437	1,491
2020	931	11	394	1,336
2021	940	3	731	1,674
2022	1,171	4	749	1,923

Source: UK overseas trade statistics (HM Revenue & Customs), industry associations

Notes:

1. There are reliability concerns for some of these figures, particularly for individual products (see Sources chapter).

### 3.8 Origin of wood imports

Table 3.8 presents data on the source of selected wood products that have been imported into the UK in 2022.

Sawn softwood, sawn hardwood, particleboard, fibreboard, and paper and paperboard were mainly imported from EU countries in 2022 (Table 3.8):

- Sweden (43%), Latvia (19%) and Finland (13%) provided the majority of imports of sawn softwood to the UK.
- Latvia (22%) and France (13%) provided over a third of the sawn hardwood imported to the UK.
- Most particleboard imports to the UK came from Germany (18%), France (17%), Ireland (13%) and Belgium (10%).
- Most fibreboard imports to the UK came from Ireland (39%) and Germany (18%).
- Most paper and paperboard imports came from Germany (20%), Sweden (14%), and Finland (11%).

Wood pulp imports originated from a range of both EU and non-EU countries in 2022:

- Sweden (29%), Brazil (29%) and the Netherlands (15%) provided almost three quarters of wood pulp imports to the UK.

The vast majority of UK imports of plywood and wood pellets came from countries outside the EU in 2022:

- China (53%) and Brazil (13%) were the principal sources of plywood imports to the UK.
- Canada (14%) and "Other non-EU" countries (66%) provided the majority of wood pellet imports to the UK.

Table 3.8 Country of origin of wood imports to the UK, 2022

per cent of total UK imports (volume) in each category

Source	Sawn <sup>1</sup> soft wood	Sawn <sup>1</sup> hard wood	Ply- wood	Particle -board	Fibre - board	Pellets	Wood pulp	Paper and paper - board
Sweden	43	1	0	0	0	0	29	14
Germany	8	3	0	18	18	0	0	20
Finland	13	1	6	0	2	0	9	11
Latvia	19	22	2	8	2	12	0	0
France	0	13	1	17	2	0	0	6
Ireland	8	1	0	13	39	0	0	0
Netherlands	2	4	1	4	1	1	15	7
Belgium	1	3	1	10	0	0	0	6
Portugal	0	0	0	9	2	0	0	4
Poland	0	4	2	1	4	0	0	2
Estonia	1	7	0	0	0	2	0	0
Other EU	1	12	3	12	20	3	11	9
<b>Total EU</b>	<b>96</b>	<b>71</b>	<b>16</b>	<b>92</b>	<b>90</b>	<b>18</b>	<b>64</b>	<b>79</b>
USA	0	1	0	0	0	65	0	0
Canada	1	2	0	0	1	14	0	2
Brazil	0	2	13	0	0	2	29	2
China	0	0	53	4	5	0	0	1
Norway	2	2	0	0	0	0	0	4
Other non-EU	1	22	18	4	4	1	7	12
<b>Total non-EU</b>	<b>4</b>	<b>29</b>	<b>84</b>	<b>8</b>	<b>10</b>	<b>82</b>	<b>36</b>	<b>21</b>

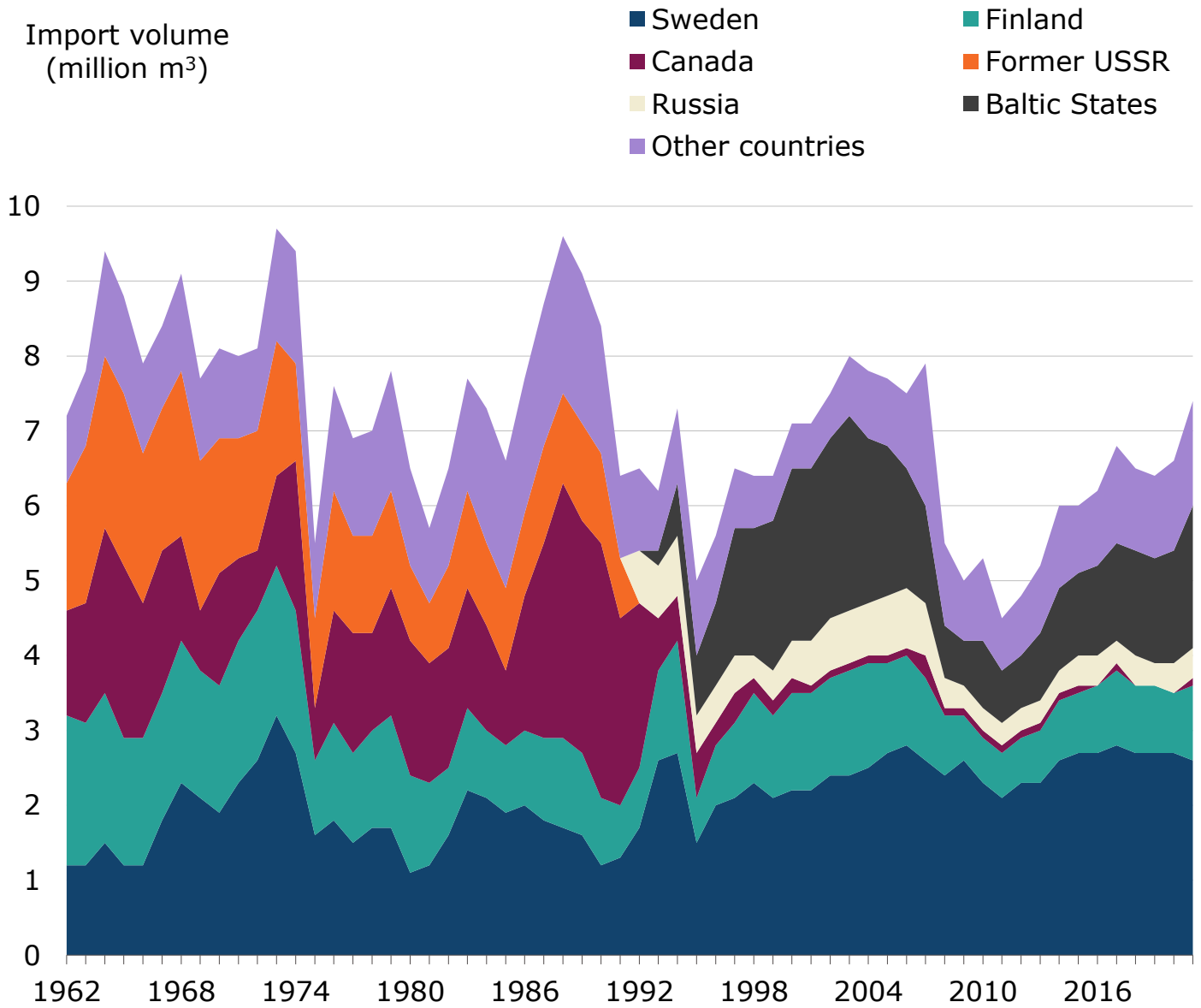
Source: UK overseas trade statistics (HM Revenue &amp; Customs), industry associations.

Notes:

1. Sawnwood imports in this table exclude sleepers.

Figure 3.2 shows the main sources of imports of sawn softwood to the UK since 1962. The total level of sawn softwood imports has fluctuated between around 5 million m<sup>3</sup> and 10 million m<sup>3</sup> from 1962 to present. Imports to the UK from Canada have reduced substantially since the early 1990s. In contrast, imports from the Baltic States increased between 1992 and 2003 and, although there was some decline between 2003 to 2012, imports from the Baltic States to the UK have started to increase again in recent years. Since 1993, Sweden has consistently been the principal country of origin for UK sawn softwood imports.

Figure 3.2 Country of origin of sawn softwood<sup>1</sup> imports to the UK, 1962 to 2022



Source: FAO, UK overseas trade statistics (HM Revenue & Customs), industry associations.

Notes:

1. Sawn softwood imports in this chart exclude sleepers.

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